AMENDMENTS TO THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims in the application.

Please amend claims 2, 3, 8, 9, 19 and 20, as follows:

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1. (Previously Presented) A method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system, comprising the steps of:

when an access node coupled to a wireless private network makes a request for a call connection with another access node coupled to the wireless private network, carrying out a call connection between the access nodes, providing a high-speed wireless data service for the access nodes, and carrying out a call connection release after completing the high-speed wireless data service;

updating state information of the access nodes according to the call connection and connection release between the access nodes, the state information indicating an idle state or a busy state of the access nodes; and

transmitting the state information of the access nodes to a public network in response to a request for the state information of the access nodes by the public network.

2. (Currently Amended) A method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system, comprising the steps of:

when an access node coupled to a wireless private network makes a request for a call connection with another access node coupled to the wireless private network, carrying out a call connection between the access nodes [[and]], providing a high-speed wireless data service for the access nodes [[;]], and updating state information of the access nodes to busy state information;

when the high-speed wireless data service for the access nodes is completed, carrying out a call connection release [[;]], and updating the state information of the access nodes to idle state information according to the call connection release; and

transmitting the state information of the access nodes to the public network in response to a public network requesting the state information of the access nodes.

3. (Currently Amended) A method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system, comprising the steps of:

when an access node coupled to a wireless private network makes a request for a call connection with another access node coupled to the wireless private network, allowing a private access network controller to carry out a call connection between the access nodes [[and]] to provide a high-speed wireless data service for the access nodes

[[;]] allowing the private access network controller to request that state information of the access nodes be updated [[;]], and allowing a data location register to update the state information of the access nodes to busy state information according to a state information update request;

when the high-speed wireless data service for the access nodes is completed, carrying out a call connection release between the access nodes [[and]], allowing the private access network controller to request that the state information of the access nodes be updated [[;]], and allowing the data location register to update the state information of the access nodes to idle state information according to another state information update request; and

allowing the data location register to transmit the state information of the access nodes to a public network in response to a request for the state information of the access nodes by the public network.

- 4. (Original) The method of claim 3, with the data location register storing the information associated with the access node requesting for the call connection being equal to the information associated with the other access node.
- 5. (Original) The method of claim 4, with the private access network controller and the data location register being configured to being based on an Internet protocol.

- 6. (Original) The method of claim 5, with the private access network controller sending a state information update request message including current state information of the originating access node and the terminating access node to the data location register.
 - 7. (Original) The method of claim 5, with the private access network controller sending a request message indicating the state information of the originating access node and the terminating access node to be updated to busy state information and the data location register searching for the subscriber information upon receiving the state information update request and updating the access node state information to busy state information.
 - 8. (Currently Amended) A wireless data system, comprising:
 - a first access node receiving a first network service;

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- a second access node receiving a second network service;
- a first private access network transceiver system setting up a session when the first access node moves within the wireless service area of the first private access network transceiver:
- a second private access network transceiver system setting up a session when the second access node moves within the wireless service area of the second private access network transceiver;

a private access network controller carrying out a call connection between the access nodes [[and]] to provide data service for the first and second access nodes when the first access node coupled to the first network service makes a request for a call connection with the second access node coupled to the first second network service, and the private access network controller requesting state information of the first and second access nodes to be updated, with the state information indicating an idle state or a busy state of the access nodes; and

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a data location register transmitting at least one of the state information of the first access nodes and the state information of the second access node to a public network in response to a request for the state information of the access nodes by the public network.

- 9. (Currently Amended) The system of claim 8, further comprising [[a]] the data location register updating the state information of the access nodes to busy state information according to a state information update request.
- 10. (Original) The system of claim 9, with the private access network controller requesting that the state information of the access nodes be updated and carrying out a call connection release between the access nodes when the data service for the access nodes is completed.

- 1 11. (Original) The system of claim 10, with the data location register updating
 2 the state information of the access nodes to idle state information according to another
 3 state information update request.
 - 12. (Original) The system of claim 11, with the first network service being a wireless private network.

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- 13. (Original) The system of claim 12, with the second network service being a public land mobile network.
- 14. (Previously Presented) The system of claim 12, with the second network service being the public network.
- 15. (Original) The system of claim 13, with the data location register storing the information associated with the first access node of the wireless private network equal to the information associated with the second access node of the public land mobile network.
- 16. (Original) The system of claim 15, with the private access network controller and the data location register being configured to being based on an Internet protocol.

17. (Original) The system of claim 16, with the private access network controller sending a request message indicating the state information of the originating access node and the terminating access node to be updated to busy state information and the data location register searching for the subscriber information upon receiving the state information update request and updating the access node state information to busy state information.

18. (Previously Presented) A computer-readable medium having computer-executable instructions for performing a method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system, comprising:

when an access node coupled to a wireless private network makes a request for a call connection with another access node coupled to the wireless private network, carrying out a call connection between the access nodes, providing a high-speed wireless data service for the access nodes, and carrying out a call connection release after completing the high-speed wireless data service;

updating state information of the access nodes according to the call connection and connection release between the access nodes, the state information indicating an idle state or a busy state of the access nodes; and

transmitting the state information of the access nodes to a public network in response to a request for the state information of the access nodes by the public network.

19. (Currently Amended) A computer-readable medium having computer-executable instructions for performing a method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system, comprising:

when an access node coupled to a wireless private network makes a request for a call connection with another access node coupled to the wireless private network, carrying out a call connection between the access nodes and providing to provide a high-speed wireless data service for the access nodes [[;]] , and updating state information of the access nodes to busy state information;

when the high-speed wireless data service for the access nodes is completed, carrying out a call connection release [[;]], and updating the state information of the access nodes to idle state information according to the call connection release; and

transmitting the state information of the access nodes to the public network in response to a public network requesting the state information of the access nodes.

1	20. (Currently Amended) A computer-readable medium having stored thereon a
2	data structure for performing a call processing operation to manage state information of
3	access nodes in a high-speed wireless data system, comprising:
4	a first field containing data representing when an access node coupled to a
5	wireless private network makes a request for a call connection with another access node
6	coupled to the wireless private network, allowing a private access network controller to
7	carry out a call connection between the access nodes [[and]] to provide a high-speed
8	wireless data service for the access nodes [[;]]
9	a second field containing data representing, allowing the private access network
10	controller to request that state information of the access nodes be updated [[;]]
11	a third field containing data representing, and allowing a data location register
12	to update the state information of the access nodes to busy state information according
13	to [[a]] the state information update request from the private access network controller;
14	a fourth second field containing data representing when the high-speed wireless
15	data service for the access nodes is completed, carrying out a call connection release
16	between the access nodes [[and]], allowing the private access network controller to
17	request that the state information of the access nodes be updated;
18	a fifth field containing data representing, and allowing the data location register
19	to update the state information of the access nodes to idle state information according to
20	another the state information update request from the private access network controller;
21	and

a [[sixth]] third field containing data representing allowing the data location register to transmit the state information of the access nodes to a public network in response to a request for the state information of the access nodes by the public network.

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- 21. (Previously Presented) The method of claim 1, with said updating state information of the access nodes accommodating a public network to recognize state information of the private network subscriber located in a private and public cell area by transmitting terminal state information from the private network to the public network in a mobile communication system interworked with the public and private networks.
- 22. (Previously Presented) The method of claim 2, further comprised of said updating state information of the access nodes accommodating the public network to recognize state information of a private network subscriber located in a private and public cell area by transmitting terminal state information from the private network to the public network in a mobile communication system interworked with the public and private networks.
- 23. (Previously Presented) The computer-readable medium having computer-executable instructions for performing a method for performing a call processing

operation to manage state information of access nodes in a high-speed wireless data system of claim 18, with said updating state information of the access nodes accommodating the public network to recognize state information of a private network subscriber located in a private and public cell area by transmitting terminal state information from the private network to the public network in a mobile communication system interworked with the public and private networks.

24. (Previously Presented) The computer-readable medium having computer-executable instructions for performing a method for performing a call processing operation to manage state information of access nodes in a high-speed wireless data system of claim 19, with said updating state information of the access nodes accommodating the public network to recognize state information of a private network subscriber located in a private and public cell area by transmitting terminal state information from the private network to the public network in a mobile communication system interworked with the public and private networks.